

















# 2019 CAMERA COMPARISON CHART

GARY ADCKOCK & THOMAS FLETCHER		Imager (Actual Size)	ISO	Latitude <small>Manufacturer Published Spec</small>	Frame Rates	Pixel Resolution of Recorded Media	Recorded Bit Depth Format & Time <small>(Highest Internal Record @ 24 fps)</small>	Data (Per Min)	Weight (Body Only)	Power Draw	Highlighted Positives	Notable Credits	List Price Camera Only (US Dollars) <small>Sorted by</small>
	<b>CMOS</b> 44.7mm Ø 36.7 × 25.5mm	800 Base	14+ Stops		ARRIRAW LFOG LF16:9 LF2:39 .75-90 .75-90 .75-150	ARRIRAW & ProRes LFOG - 4448x3096 LF16:9 - 3840x2160 LF2:39 - 4448x1856	12 Bit Log ARRIRAW: LFOG 2TB SXR CD: 64 min LF16:9 2TB SXR CD: 107 min LF2:39 2TB SXR CD: 108 min 12 bit Log C ProRes 4444: LFOG/2TB SXR CD: 64 min LF16:9/2TB SXR CD: 107 min LF2:39/2TB SXR CD: 108 min	ARRIRAW: LFOG 30 GB LF16:9 18.2 GB LF2:39 18.1 GB ProRes: LFOG 15.4 GB LF16:9 9.2 GB LF2:39 9.1 GB	17.2 lbs. 7.8 kg	135W RAW w/EVF & Wireless Video 85W RAW Body Only	Immersive large format aesthetic. ALEXA image: wide latitude, great skin tones, low noise Fast & efficient ProRes. Uncompressed & unencrypted ARRIRAW HDR recording & monitoring. 150 fps, built-in wireless video. Netflix approved	<i>Ford v Ferrari</i> <i>Dune</i> <i>Terminator: Dark Fate</i> <i>The Eternals</i> <i>The Undoing</i> <i>Killing Eve</i> <i>She's Gotta Have It</i>	\$98,200 <small>(price includes other accessories such as EVF &amp; Wireless System)</small>
	<b>CMOS</b> 33.6mm Ø 28.3 × 18.2mm	800 Base	14+ Stops		ARRIRAW   ProRes .75-120  .75-120 16:9 .75-96  .75-96 6:5 .75-96  .75-60 4:3 .75-90  .75 60 OG	OG 3424 x 2202 6:5 2578x 2160 4:3 2880 x 2160 16:9 3200 x 1800	12 Bit Log ARRIRAW OG 512GB XR CD - 29 min 4:3 512GB XR CD -36 min 16:9 512GB XR CD - 39 min OG 2TB SXR CD - 117 min 4:3 2TB SXR CD -142 min 16:9 2TB SXR CD - 157 min	ARAW   P. Res 16.6   8.1 OG 13.8   6.7 4:3 12.5 6.2 16:9	14.3 lbs. 6.5 kg	125W RAW w/EVF & Wireless Vid 90W RAW Body Only	True Anamorphic 4:3 imager Wide latitude ideal for HDR Proven reliability & post efficiency ProRes as Log C, 709, With LUTs 3 independent MON OUTs I/O as BT.709, BT.2020, Arri Log C Optional built-in wireless video	<i>Game of Thrones</i> <i>Aladdin</i> <i>It 2</i> <i>Us</i> <i>John Wick 3</i> <i>Glass</i> <i>The Wandering Earth</i>	\$85,320 <small>(price includes other accessories such as EVF &amp; Wireless System)</small>
	<b>CMOS</b> 46.3mm Ø 41.0 x 21.6mm	800 Base	17+ Stops w/ HDRx		1-60fps 7&8K 1-75fps 6K 1-96fps 5K 1-120fps 4K FPS increases when shooting 2.4:1	8K 8192 x 4320 7K 7168 x 3780 6K 6144 x 3240 5K 5120 x 2700 4K 4096 x 2160 2K 2048 x 1080	16 bit REDCODE 8KFF 5:1 512Mag -31 min 1TB SSD - 63 min (HDRx Cuts Time in Half)	8K FF 5:1 15.5 GB 6K FF 3:1 14.6 GB	7.5lbs 3.4kg Ranger 3.3 lbs. 1.5 kg DSMC	65W Body Only Ranger 60W Body Only DSMC	RANGER ergonomic unibody design, 24V pwr and fully integrated I/O ports DSMC2 version offers a more flexible, lightweight, fully modular form factor Lowest Data Rate for 8K recording Netflix Approved	<i>Army of the Dead</i> <i>Midway</i> <i>Ratched</i> <i>6 Underground</i> <i>The Laundromat</i> <i>Stranger Things S3</i> <i>Peaky Blinders S5</i>	\$79,500 Ranger \$54,500 DSMC2
	<b>CMOS</b> 44.7mm Ø 36.7 × 25.5mm	800 Base	14+ Stops		ARRIRAW LFOG LF16:9 .75-40 .75-60	ARRIRAW & ProRes LFOG - 4448x3096 LF16:9 - 3840x2160 LF2:39 - 4448x1856	12 Bit Log ARRIRAW: LFOG 1TB Codex CD: 32 min LF16:9 1TB Codex CD: 53 min LF2:39 1TB Codex CD: 54 min 12 bit Log C ProRes 4444: LFOG/1TB Codex CD: 72 min LF16:9/1TB Codex CD: 121 min LF2:39/1TB Codex CD: 120 min	ARRIRAW: LFOG 29.8 GB LF16:9 17.9 GB LF2:39 17.9 GB ProRes: LFOG 13.2 GB LF16:9 7.9 GB LF2:39 8.0 GB	5.7 lbs. 2.6 kg	65W RAW w/EVF	Small & lightweight Immersive large format aesthetic ALEXA image: wide latitude, great skin tones, low noise Fast & efficient ProRes Uncompressed & unencrypted ARRIRAW HDR recording & monitoring Netflix approved	<i>1917</i> <i>Away</i> <i>Infinite</i> <i>The Eternals</i> <i>Aether</i> <i>The Mandalorian</i> <i>Ted Lasso</i>	\$58,760 Body Only
	<b>CMOS</b> 33.6mm Ø 28.3 × 18.2mm	800 Base	14+ Stops		OG - .75-30 ARRIRAW 16:9 .75-48 fps 4:3 ProRes .75-50 16:9 .75-200 6:5 ProRes.75-150 8:9 ProRes.75-150	OG 3424 x 2202 4:3 - 2880 x 2160 UHD 16:9 3840 x 2160 16:9 2048 x 1152 16:9 1920 x 1080	12 Bit Log ARRIRAW ProRes4444XQ UHD 512GB CFast - 38 min Records Classic ALEXA formats	ARRIRAW 16.6 GB ProRes 8.7 GB	5 lbs. 2.3 kg	45W Body Only 75W with Acc	Super Lightweight Carbon Body ALEXA Sensor Latitude and HDR image quality Integrated Lens Motor Control Motorized ND filters Exchangeable Lens Mounts Perfect for Gimbals & Multicopters	<i>Hobbs &amp; Shaw</i> <i>John Wick 3</i> <i>Rocketman</i> <i>Spiderman: Far from Home</i> <i>This is Us</i>	\$45,720 Body Only
	<b>CMOS</b> 43.5mmØ 36.2 x 24.1mm	Dual 500 & 2500 Base	15+ Stops		6K 3:2   1.85   2.39 60 72 <sup>1</sup> 90 <sup>1</sup> 4K 4K 6:5   4:3   17:9 30 48 60	FF 6048 x 4032 6K 17:9 6054 x 3192 4K 6:5 4096 x 3432 4K 4:3 4096 x 3024 4K 4096 x 2160 UHD 3840 x 2160 HD 1920 x 1080	16 Bit XOCN ST 6K 3:2 1TB AXS SSD - 69 Min	14 GB 6K 3:2 5 GB 4K 17:9	8.5 lbs. 3.9 kg	85W System 60W Body Only	6K Full Frame Sensor Dual Base ISO Operation PL Mount & Professional E-mount 8 Step Internal motorized Optical ND Filter System Sensor extension option - <i>Rialto</i> Netflix Approved	<i>Avatar Sequels</i> <i>Top Gun: Maverick</i> <i>Bad Boys for Life</i> <i>Dead to Me (S1)</i> <i>Snowfall (S3)</i> <i>Empire (S6)</i> <i>The Boys (S1)</i>	\$42,000 Body Only \$11,822 Rialto Extension Module
	<b>CMOS</b> 27.8mm Ø 24.6 x 12.9mm	Dual 800 & 5000 Base	14+ Stops		<b>PURE &amp; V35</b> 1-120 fps VRaw & AVC-Intra 4K422 <b>VARICAM LT</b> AVC-Intra 4K422 1-30 & 1-60 (Ext)	4K 4096 x 2160 UHD 3840 x 2160 2K 2048 x 1080 HD 1920 x 1080	<b>VARICAM LT</b> AVC-I 422-4K, ProRes HD 512GB Express P2 Card 180 min -AVC-I 422-4K 124 min - ProRes HD	LT 4:2:2 2.3GB	12.2 lbs. 11.4 lbs. 6 lbs.	PURE V35 V35 99W LT 47W	Exceptional Low Light Performance Clean Signal @ 5000 ASA LT RAW via Atomos Shogun Inferno & Convergent Design Odyssey 7Q & 7Q+ Netflix Approved	<i>Crazy Rich Asians</i> <i>Deadliest Catch</i> <i>The Enemy Within</i> <i>Comedians in Cars Getting Coffee</i>	Pure \$48,000 V35 \$43,000 LT \$9,995

<sup>1</sup>Future Update <sup>2</sup>Select Shots

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GARY ADCOCK & THOMAS FLETCHER		Imager (Actual Size)	ISO	Latitude Manufacturer Published Spec	Frame Rates	Pixel Resolution of Recorded Media	Recorded Bit Depth Format & Time (Highest Internal Record @ 24 fps)	Data (Per Min)	Weight (Body Only)	Power Draw	Highlighted Positives	Notable Credits	List Price Camera Only (US Dollars) Sorted by
	<b>CMOS</b> 27.2mm Ø 23.8 × 13.4mm	800 Base	14+ Stops	.75-60 fps - UHD .75-48fps - ARRIRAW .75-200fps - ProRes	3840 x 2160 3200 x 1800 2048 x 1152 1920 x 1080	12 Bit Log ARRIRAW 512GB CFast - 50 min  ProRes 4:4:4 XQ UHD 512GB CFast - 38 min	2.8K RAW 10GB  ProRes UHD 13.4GB	9.2 lbs. 4.1 kg	50W Body Only	ARRIRAW up 48fps w/ SUP and License Lightweight Comfortable Handheld 4K UHD & 3.2K Record Options Powerful In-Camera Color Grading 200 fps Slow Motion	Chicago PD NFL Films NBA Entertainment Sea of Shadows	\$35,000	
	<b>CMOS</b> 43.1mm Ø 38.1 × 20.1mm	800 Base	15 Stops	24-30 5.9K 12bit RAW 50/60 5.9K 10bit RAW 24-60 4K DCI 12bit RAW 60/72 4K DCI 10bit RAW 24-60 4K 12bit 422 XF-AVC 24-60 2K 12bit 444 XF-AVC 1-30 4K 10bit ProRes	5952 x 3140 4096 x 2160 3840 x 2160 2K & HD	12 Bit -RAW 10 Bit -XF-AVC YCC422 22 min 64GB ProRes 422 HQ 10 min 64GB Cinema RAW RAW Requires Codex Recorder	5.9K Raw 24.5GB 4K ProRes 5.3GB	7.6 lbs. 3.4 kg	75.2W RAW 59.1W ProRes	High Sensitivity / Low Noise Internal Motion Tracking DualPixel AutoFocus IP output over Ethernet Netflix Approved	Grace & Frankie Dads The Kingmaker Pine Gap The Obituary of Tunde Johnson	\$33,000 Body Only	
	<b>CMOS</b> 33.8mm Ø 29.9 × 15.8mm	800 Base	16.5+ Stops w HDRx	1-60fps 7&8K 1-75fps 6K 1-96fps 5K 1-120fps 4K FPS increased when shooting 2.4:1	8192 x 4320 7168 x 3780 6144 x 3240 5120 x 2700 4096 x 2160 2048 x 1080	16 Bit REDCODE - 8K FF @ 5:1 512GB SSD - 31 min 1TB SSD - 63 min (HDRx Cuts Time in Half)	8K FF 5:1 15.5 GB 1.5 kg DSMC2 Body Only	7.5 Lbs. 3.4 Kg Ranger Body Only 60W DSMC2 Body Only	65W Ranger Body Only 60W DSMC2 Body Only	RANGER ergonomic unibody design, 24V pwr and fully integrated I/O ports DSMC2 version offers a more flexible, lightweight, fully modular form factor Netflix Approved	The 2 Popes Russian Doll GLOW S3 Narcos: Mexico S2 Mindhunter	\$29,950 Ranger \$24,500 DSMC2	
	<b>CMOS</b> 35.6mm Ø 30.7 × 18mm	Dual 800 Base	16.5+ Stops w HDRx	1-75fps 5K 1-120fps 4K DCI 1-240fps 2K FPS increased when shooting 2.4:1	5120 x 2700 4096 x 2160 3072 x 1620 2048 x 1080	16 Bit REDCODE - 5K FF @ 2:1 512GB SSD - 44 min 1TB SSD - 87 min (HDRx Cuts Time in Half)	5K FF 2:1 15.1 GB 1.5 kg DSMC2 Body Only	7.5 lbs. 3.4 Kg Ranger Body Only 60W DSMC2 Body Only	65W Ranger Body Only 60W DSMC2 Body Only	RANGER ergonomic unibody design, 24V pwr and fully integrated I/O ports DSMC2 version offers a more flexible, lightweight, fully modular form factor Netflix Approved	Sneaky Pete S3 Jessica Jones S3 Seal Team S3 Rambo V: Last Blood	\$24,950 Ranger \$19,500 DSMC2	
	<b>CMOS</b> 27.1mm Ø 23.5 × 13.7mm	2000 Base	14 Stops	1-60fps @ 4K 1-180fps @HD	4K 4096 x 2160 UHD 3840 x 2160 HD 1920 x 1080	10 Bit 4:2:2 XAVC-I HD, UHD XQD 128GB = 55min ProRes 4:2:2 HQ XQD 128GB = 74min	2.3GB 4K XAVC 2.0 kg	4.5 lbs. 19W	19W	Pro Res HD Workflow Option External 12bit 4KRaw Record Electronic Vari ND Filter 240fps at 2K RAW External Netflix Approved	Amazing Race Queer Eye (S3) Closed Course Family Life	\$13,199	
	<b>CMOS</b> 29.8mm Ø 26.4 × 13.8mm	800 Base	15 Stops	1-120 fps @ 2K/HD 1-30 fps @ 4K/UHD	4096 x 2160 3840 x 2160 2048 x 1080 1920 x 1080	12/10 Bit RGB XF-AVC-Intra 4:4:4 128GB CFast - 75 min 10 Bit YCC 4:2:2 XF-AVC Intra 128GB CFast - 40 min	2K 1.7 GB 4K 3.1 GB Version)	4.4 lbs. 2.9 kg (PL Version)	21.2W	Canon Log 3 HDR Exposure Latitude Exceptional Sensitivity Canon RAW via external recorder 2, 4 & 6 Stop ND Filters Netflix Approved	Free Solo RBG Minding the Gap Hale Country Of Father and Sons	\$11,999	
	<b>CMOS</b> 29.8mm Ø 24.6 × 13mm	800 Base	14 Stops	1-30 @ 5.7K External RAW 1-60 @ 4K/UHD 1-240 @ 2K/HD	5720x3016 External RAW 4096 x 2160 3840 x 2160 2K 1080p 720p	All-I 400 MOV 10bit 4:2:2 128GB - 40 min HEVC H.265 4K 60P H.264/MP4/AVCHD	4K 3.2 GB	2.6 lbs. 1.2 kg	19W	Dual Native ISO 5.7K/4K/2K RAW out to ext. recorder V-Log/V-Gamut, HLG mode - Live HDR Affordable SD card media Netflix approved	Deadliest Catch LA's Finest The Enemy Within <sup>2</sup> The Heights S2	\$6,495	
	<b>CMOS</b> 29.1mm Ø 25.3 × 14.2mm	800 Base	15 Stops	Full Sensor 12-120fps 4.6K & 4K Windowed 12-150 4K DCI & 3K UHD & 2K 1-150fps 12-300fps 2K & HD	BRAW & ProRes 4.6K 4608 x 2592 4.6K 2.40 4608 x 1920 4K 16:9 4096 x 2304 4K DCI 4096 x 2160 UHD, 3K ANA, 2K & HD	12 bit (non-linear) Blackmagic RAW CFast 2.0 512 GB 4.6K BM RAW QD - 30 min 4.6K RAW 3:1 - 56 min 4.6K ProRes XQ - 28 min	17.6 GB 4K BM RAW Q0 6.36 GB 4.6K ProRes	5 lbs. 2.3 kg	44W	Great skin tones Wide dynamic range for HDR Internal Blackmagic RAW or ProRes recording to CFast 2.0 or SD Cards Intl. ND Filters: 2, 4, 6 stops w/ IR cut Netflix Approved	Lucifer <sup>2</sup> Let's Play 2 Pearl Jam The Resident <sup>2</sup> Stand! Marvelous Mrs. Maisei <sup>2</sup>	\$5,995	
	<b>CELLULOID</b> 31.1mm Ø 24.9 × 18.1mm	500 Base	15-16 Stops	1-150 fps Arri 435 1-60 fps Sync Sound Body	6K 4K 2K Uncompressed (via Scanner)	16 Bit (Linear) 10 Bit (Log) 3P 14m48s 1000' 4P 11m06s 1000'	N/A	25 lbs. 11.3 kg 400' Load	55W ARRICAM	4:4:4 Color Sampling Established Workflow Widest Available Latitude Proven Archival Value Netflix Approved	The Irishman West Side Story Succession Staten Island Walking Dead 16mm	.77 ¢ per foot	

<sup>1</sup>Future Update <sup>2</sup>Select Shots